26th International Technical Meeting of the Satellite Division of the Institute of Navigation

(ION GNSS 2013)

Nashville, Tennessee, USA
16-20 September 2013

Volume 1 of 4

ISBN: 978-1-62993-578-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Printed by Curran Associates, Inc. (2014)

Institute of Navigation
8551 Rixlew Lane
Suite 360
Manassas, VA 20109

Phone: (703) 366-2723
Fax: (703) 366-2724

membership@ion.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

ION® GNSS 2013 Proceedings

Table of Contents

Viewing of the text and graphics and the ease of readability will depend on the quality and/or consistency of the author original file.

PLENARY SESSION

A1: Remote Sensing with GNSS and Integrated Systems

B1: Receiver/Antenna Technology

C1: Aviation Applications

D1: Emerging GNSS (Galileo, COMPASS, QZSS, IRNSS)

E1: Indoor Navigation and Timing 1

F1: Alternatives and Backups to GNSS 1

Panel 1: Program Updates

A2: Marine and Land Based Applications

B2: Alternatives and Backups to GNSS 2

C2: GNSS Space Based Augmentation Systems (SBAS)

D2: GPS and GLONASS Modernization

E2: Indoor Navigation and Timing 2

F2: GNSS-MEMS Integration

Panel 2: IP Policies Related to GNSS

A3: Precise Point Positioning

B3: Multi-Sensor and Integrated Navigation in GNSS-Challenged Environments 1

C3: GNSS Ground Based Augmentation Systems (GBAS)

D3: GNSS Compatibility, Interoperability, and Services

E3: Software Receivers

F3: Urban Navigation Technology

Panel 3: New Products

A4: GNSS and the Atmosphere 1

B4: GNSS Simulation and Testing

C4: Algorithms and Methods

D4: Multi-Sensor and Integrated Navigation in GNSS-Challenged Environments 2

E4: Advanced Inertial Sensing and Applications

F4: New Products and Commercial Services

Panel 4: High Integrity Systems

A5: GNSS and the Atmosphere 2

B5: Advances in Military GNSS Systems and Applications

C5: Next Generation GNSS Integrity

D5: GNSS Algorithms and Methods 1

E5: Multi-Constellation/Portable Navigation Devices

F5: Interference and Spectrum Issues 1

Panel 5: Emerging GNSS

A6: Geodesy, Surveying and RTK for Civil Applications

B6: Standalone GNSS Services in Challenging Environments

C6: Space Applications

D6: Interference and Spectrum Issues 2

E6: Clock/Timing and Scientific Applications

F6: GNSS Algorithms and Methods 2

Panel 6: Unmanned Vehicles